

ABSTRACT OF THE DISCLOSURE

The invention provides classes of immunomodulatory compositions which comprise an average of one or more immunostimulatory sequence (ISS) containing polynucleotide conjugated, or attached, to antigen. The extent of conjugation affects immunomodulatory properties, such as extent of antigen-specific antibody formation, including Th1-associated antibody formation, and thus these various conjugate classes are useful for modulating the type and extent of immune response. The invention also includes methods of modulating an immune response using these compositions.

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